

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/005206 A1

(51) International Patent Classification?: **B60R 21/01, G01S 13/93**

(74) Agents: KANDO, Norikazu et al.; Kando Patent Office, Nagoya-Bldg. 5th Floor, 6-18, Meieki 4-chome, Nakamura-ku, Nagoya-shi, Aichi, 450002 (JP).

(21) International Application Number:

PCT/JP2004/009405

(22) International Filing Date: 25 June 2004 (25.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2003-195957 11 July 2003 (11.07.2003) JP
2003-195958 11 July 2003 (11.07.2003) JP

(71) Applicant (for all designated States except US): TOYOTA JIDOSHA KABUSHIKI KAISHA [JP/JP]; 1, Toyota-cho, Toyota-shi, Aichi, 4718571 (JP).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KAWASAKI, Tomoya [JP/JP]; c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho, Toyota-shi, Aichi, 4718571 (JP).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

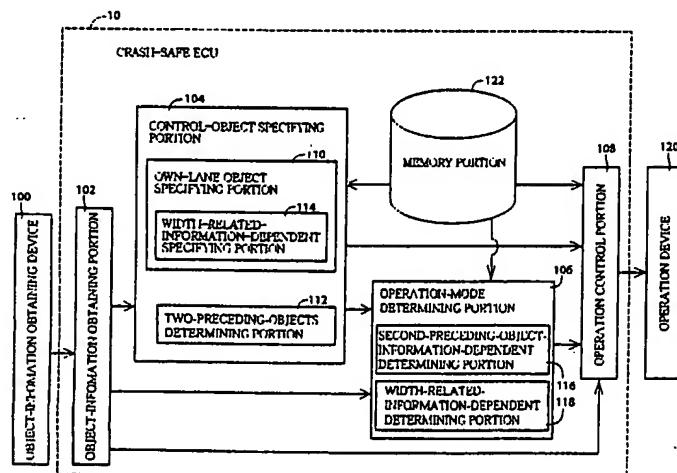
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: CRASH-SAFE VEHICLE CONTROL SYSTEM



(57) Abstract: ABSTRACT A crash-safe vehicle control system for controlling operating devices of an own vehicle such as a vehicle decelerating device and an occupant protecting device, on the basis of information on at least one preceding object existing in front of the own vehicle. The vehicle control system is arranged to effect at least one of a non-first-preceding-object-information-dependent control and a width-related-information-dependent control. The non-first-preceding-object-information-dependent control is a control of the operating devices on the basis of non-first-preceding-object information detected by the present system per se, in the presence of a high possibility of crashing of the own vehicle with a first preceding vehicle existing immediately in front of the own vehicle. The non-first-preceding-object information relates to at least one non-first preceding object each existing in front of the first preceding vehicle. The width-related-information-dependent control is a control of the operating devices on the basis of at least one of width-related information relating to a width and a widthwise position of each specific object selected from the above-indicated at least one preceding object.

WO 2005/005206 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.